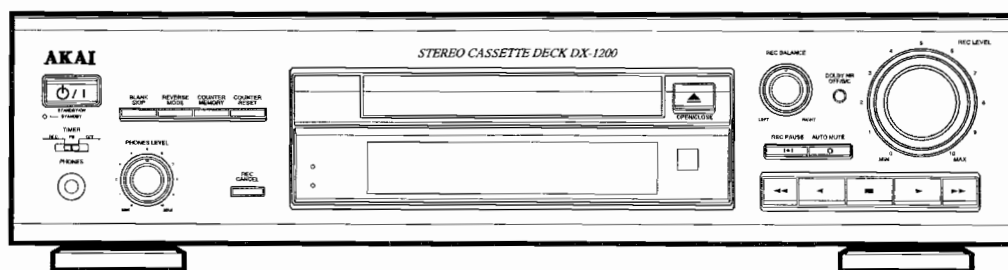




AKAI-01222

# AKAI SERVICE MANUAL



## STEREO CASSETTE DECK

### SPECIFICATIONS

### MODEL DX-1200

<ul style="list-style-type: none"> <li>• Track system : 4 track, 2-channel stereo</li> <li>• Recording system : AC bias</li> <li>• Erasing system : AC erasing</li> <li>• Tape speed : 4.8cm/sec</li> <li>• Motor : DC motor</li> <li>• Frequency response <ul style="list-style-type: none"> <li>Normal : 40~14,000Hz</li> <li>CrO2 : 40~15,000Hz</li> <li>Metal : 40~16,000Hz</li> </ul> </li> <li>• FF and REW time : 120sec (C-60 cassette tape)</li> <li>• Wow/Flutter : 0.1% (JIS. WRMS)</li> <li>• S/N ratio <ul style="list-style-type: none"> <li>DOLBY C NR ON : 75dB(CCIR/ARM)</li> <li>DOLBY B NR ON : 65dB(CCIR/ARM)</li> <li>DOLBY NR OFF : 55dB(CCIR/ARM)</li> </ul> </li> </ul>	<table> <tr> <th colspan="2">GENERAL</th></tr> <tr> <td>• Power consumption :</td><td>13W</td></tr> <tr> <td>• Power supply :</td><td>AC 230V, 50Hz [E/B/S] AC 230V/120V, 50~60HZ [U] AC 120V, 60HZ [U.S.A/CANADA]</td></tr> <tr> <td>• Dimension(W × H × D):</td><td>430 × 111 × 330mm</td></tr> <tr> <td>• Weight :</td><td>4.9kg (net)</td></tr> <tr> <th colspan="2">Standard accessories</th></tr> <tr> <td>Audio signal connection cord .....</td><td>2</td></tr> <tr> <td>Remote control connection cord .....</td><td>1</td></tr> <tr> <td>Remote control unit .....</td><td>1</td></tr> <tr> <td>Operator's manual .....</td><td>1</td></tr> </table>	GENERAL		• Power consumption :	13W	• Power supply :	AC 230V, 50Hz [E/B/S] AC 230V/120V, 50~60HZ [U] AC 120V, 60HZ [U.S.A/CANADA]	• Dimension(W × H × D):	430 × 111 × 330mm	• Weight :	4.9kg (net)	Standard accessories		Audio signal connection cord .....	2	Remote control connection cord .....	1	Remote control unit .....	1	Operator's manual .....	1
GENERAL																					
• Power consumption :	13W																				
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Operator's manual .....	1																				

- \* For improvement purposes, specifications and design are subject to change without notice.
- \* Dolby noise reduction and HX Pro headroom extension manufactured under license from Dolby Laboratories Licensing Corporation. HX Pro originated by Bang and Olufsen.
- \* "DOLBY", the double-D symbol and "HX Pro" are trademarks of Dolby Laboratories Licensing Corporation.

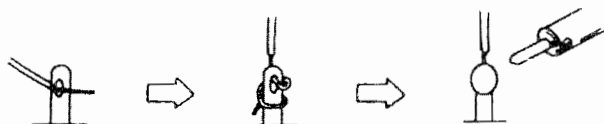
# CONTENTS

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# SAFETY INSTRUCTIONS

## PRECAUTIONS DURING SERVICING

1. Parts identified by the  $\triangle$  (\*) symbol parts are critical for safety. Replace only with parts number specified.
2. In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation.  
These must also be replaced only with specified replacements.  
Examples :RF converters, tuner units, antenna selectswitches, RF cables, noise blocking capacitors, noise blocking filters, etc.
3. Use specified internal wiring. Note especially :
  - 1) Wires covered with PVC tubing
  - 2) Double insulated wires
  - 3) High voltage leads
4. Use specified insulating materials for hazardous live parts. Note especially:
  - 1) Insulation Tape
  - 2) PVC tubing
  - 3) Spacers(insulating barriers)
  - 4) Insulation sheets for transistors
  - 5) Plastic screws for fixing micro switches
5. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap ends of wires securely about the terminals before soldering.



6. Make sure that wires do not contact heat producing parts (heat sinks, oxide metal film resistors, fusible resistors, etc.).
7. Check that replaced wires do not contact sharp edged or pointed parts.
8. Also check areas surrounding repaired locations.
9. Make sure that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

## MAKE YOUR CONTRIBUTION TO PROTECT THE ENVIRONMENT

Used batteries with the ISO symbol for recycling as well as small accumulators (rechargeable batteries), mini-batteries (cells) and starter batteries should not be thrown into the garbage can.



Please leave them at an appropriate depot. All other household batteries can be thrown out with the household waste.

## SAFETY CHECK AFTER SERVICING

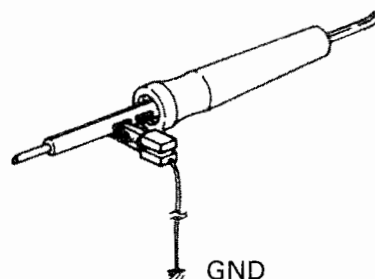
After servicing, make measurements of leakage-current or resistance in order to determine that exposed parts are acceptably insulated from the supply circuit. The leakage-current measurement should be done between accessible metal parts (such as chassis, ground terminal, microphone jacks, signal input/output connectors, etc.) and the earth ground through a resistor of 1500 ohms paralleled with a 0.15  $\mu$ F capacitor, under the unit's normal working conditions.

The leakage-current should be less than 0.5mA rms AC. The resistance measurement should be done between accessible exposed metal parts and power cord plug prongs with the power switch (if included) "ON". The resistance should be more than 2.2M Ohms.

## PRECAUTIONS IN REPAIRING

When repairing or adjusting the unit, please note the following points.

1. Do not put excessive pressure on the mechanical part (operation part), including the pick-up block, as extremely high mechanical precision is required in these parts.
2. When the base is removed for repair adjustment, make sure that there are no metal objects in the narrow gap between the P. C. board or the mecha parts and the base
3. The Micro-Computer and the CD signal processing ICs can be damaged by static electricity or leakage from a soldering iron during repairing. While soldering, please take the precautions against leakage as in the illustration.



4. Do not loosen any screws in the pick-up block. When handing the pick-up block, please refer to the points to NOTE when replacing the pick-up block.
5. Keep safety for hazardous invisible Laser Radiation, DO NOT watch the Laser Beam (Objective lens) directly.
6. Models for some countries, laser warning labels are affixed on the unit and inside of the unit, as shown below. Read it carefully for your safety, when repairing or adjusting the unit.

# INFORMATION

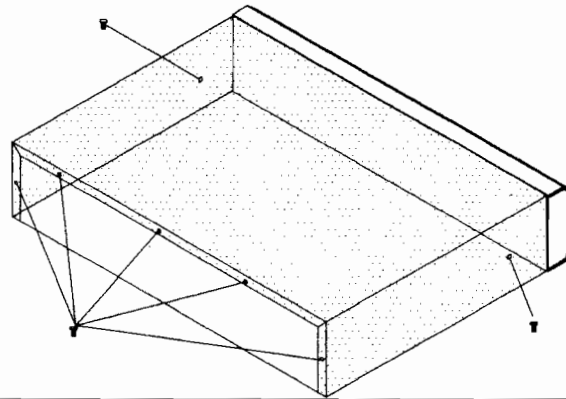
## SYMBOLS FOR PRIMARY DESTINATION

Primary destination of units are indicated with the following alphabet.

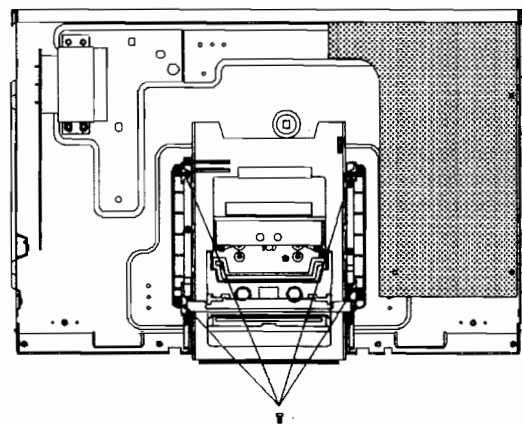
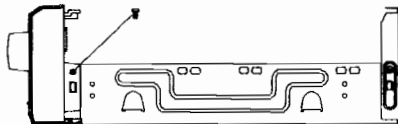
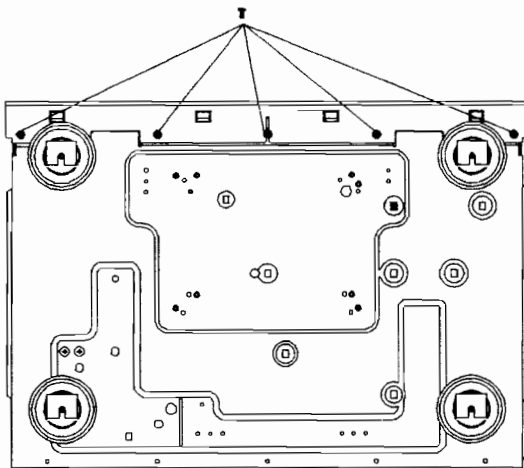
Symbols	Principal Destinations
B	UK
E	Europe (except UK)
S	Australia
U	Universal Area
Y*	Custom version

# DISASSEMBLY

## 1)ROMOVAL OF TOP COVER

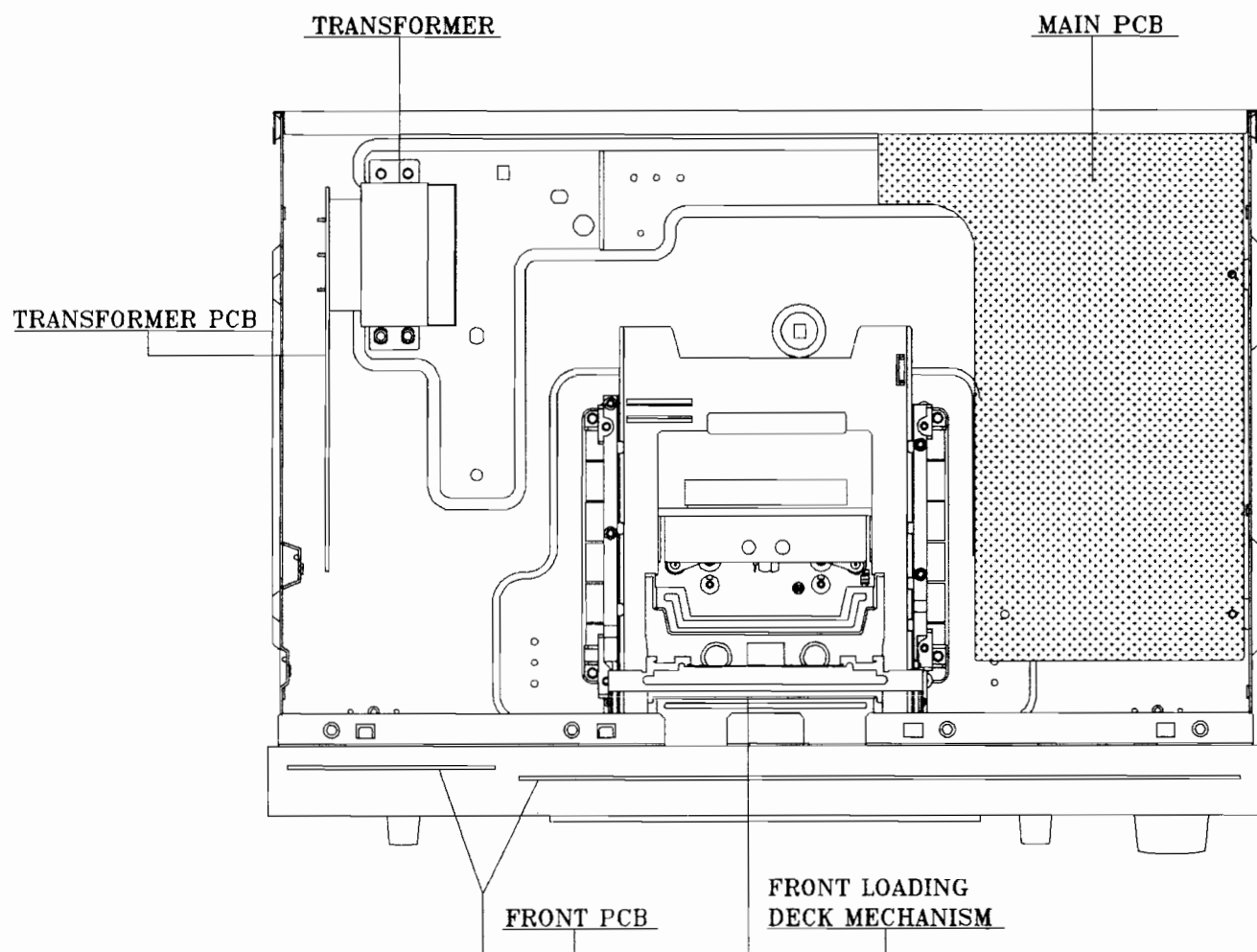


## 2)ROMOVAL OF FRONT PANEL





# PRINCIPAL PARTS LOCATION



## MEASUREMENT AND ADJUSTMENT METHODS

### Measurement condition

- Dolby NR position: OFF
- Make sure heads are clean
- Make sure capstan and pressure roller are clean.

### Measuring instruments

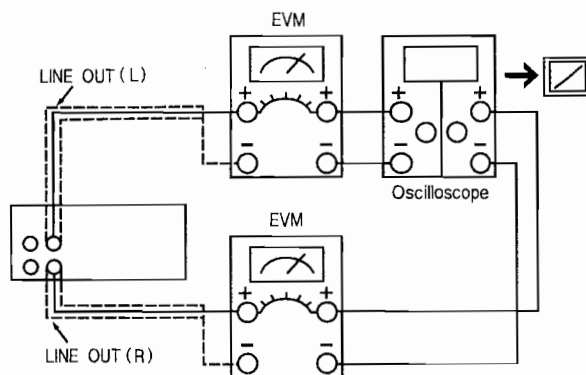
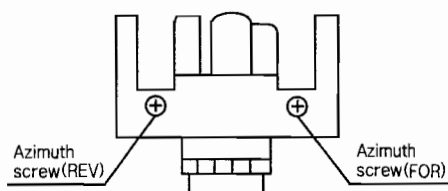
- EVM (Electronic Voltmeter)
- Oscilloscope
- Frequency counter
- AF Oscillator
- DC Voltmeter
- ATT (Attenuator)
- Resistor (600ohm)

### Test tape

- Head azimuth (10kHz, -10dB): MTT-114N
- Tape speed (3kHz, -10dB): MTT-111N
- Playback frequency response (125Hz, 1kHz, 10kHz, -10dB)
- Playback gain: MTT-150
- Blank tape
  - Normal blank tape: MTT-5513
  - CrO<sub>2</sub> blank tape: MTT-5563
  - Metal blank tape: MTT-5572

### HEAD AZIMUTH ADJUSTMENT

1. Test equipment connections are shown in fig. 1.
2. Playback the head Azimuth test tape and regulate the angle adjust screw so that the outputs of L-ch and R-ch are maximized. (When the adjusting positions are different with L-ch and R-ch, find a position where the outputs of L-ch and R-ch are balanced and then make the adjustment.)
3. At the same time, obtain a lissajous waveform and eliminate phase deflection.
4. After the adjustment, apply screw lock to the angle adjusting value.

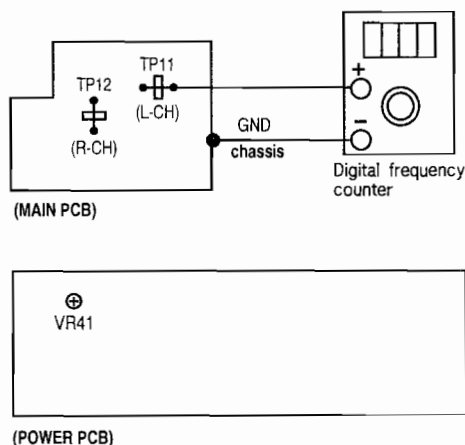


(Fig. 1)

### TAPE SPEED ADJUSTMENT

1. Test equipment connections are shown in fig. 2.
2. Playback the middle part of the test tape. (MTT-111N).

Adjustment Point	VR41
Standard Value	3,000Hz $\pm$ 30Hz

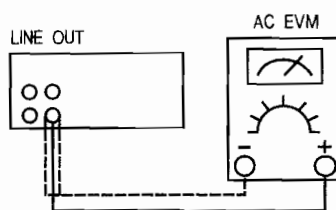


(Fig. 2)

## PLAYBACK GAIN ADJUSTMENT

1. Test equipment connections are shown in fig. 3.
2. Playback the playback gain test tape.(MTT-150).
3. Adjust playback gain.

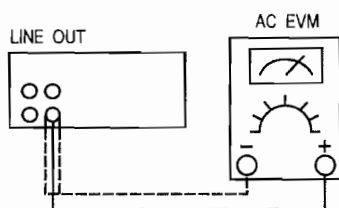
Adjustment Point	L ch	R ch
	VR11	VR12
Standard Value	540mV	



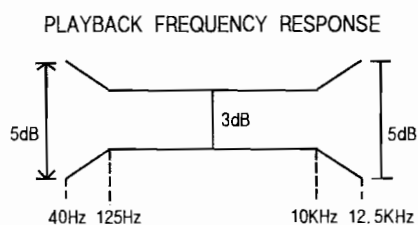
(Fig. 3)

## PLAYBACK FREQUENCY RESPONSE

1. Test equipment connections are shown in fig. 4.
2. Playback the playback frequency response test tape.
3. Check that the frequency response is within the range shown in fig. 5 for both L-ch and R-ch.



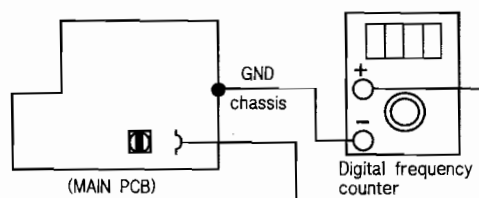
(Fig. 4)



(Fig. 5)

## BIAS FREQUENCY ADJUSTMENT

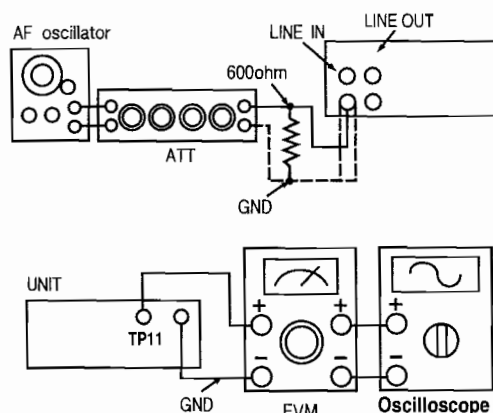
1. Test equipment connections are shown in fig. 6.
2. Load a CrO<sub>2</sub> blank test tape.
3. Press the record and pause button.
4. Adjusts T351 for 105kHz frequency counter reading.



(Fig. 6)

## OVERALL GAIN ADJUSTMENT

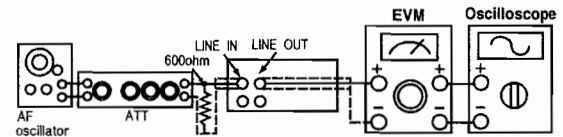
1. Test equipment connections are shown in fig. 7.
2. Insert the normal reference blank tape.
3. Place UNIT into record mode.
4. Supply a 1kHz signal through ATT (-10dB) from AF oscillator into LINE IN.
5. Adjust ATT until monitor level at TP11 (L-ch) or TP12 (R-ch) becomes 180mV.
6. Playback recorded tape and make sure that the output level at TP11 (L-ch) or TP12 (R-ch) becomes 180mV.
7. If measured value is not 180mV, adjust it by using VR21 (L-CH) or VR22 (R-CH).
8. Repeat from step (2).



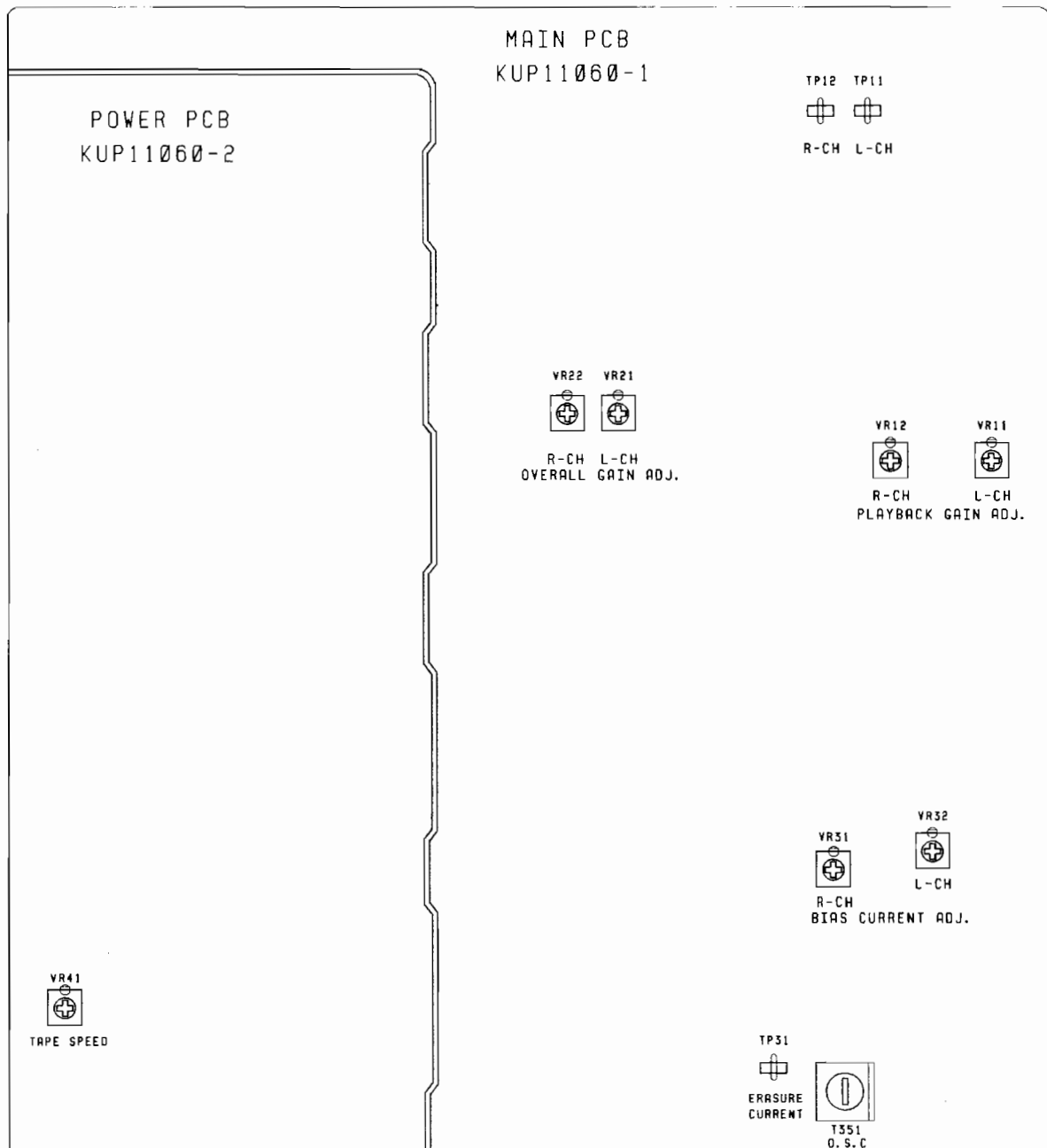
(Fig. 7)

## OVERALL FREQUENCY RESPONSE

1. Set a normal blank tape (MTT-5513) and record the signal (100Hz, 1kHz, 10kHz) applied through ATT from AF oscillator into (LINE IN Level: 35mV).
2. Playback the signal recorded in step 1, and check that the output level of each frequency within the range shown in fig. 8 in comparison with the reference frequency (1kHz).
3. If it is not within the standard range, adjust the bias current by using VR31 (L-CH) or VR32 (R-CH) so that the frequency level is within the standard.
  - Level up in high frequency range ... Increase the bias current.
  - Level down in high frequency range ... Decrease the bias current.
4. After that, increase the signal frequency recorded on CrO<sub>2</sub> blank tape (MTT-5563) and metal blank tape (MTT-5572) up to 12kHz and adjust in the same way as mentioned above and check that the frequency level is within the range shown in Fig. 8.



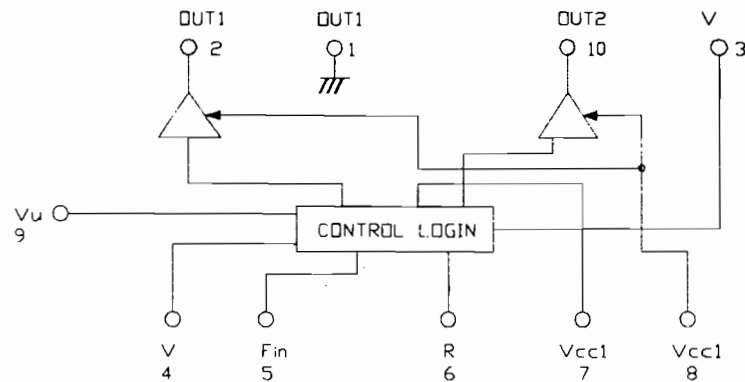
(Fig. 8)



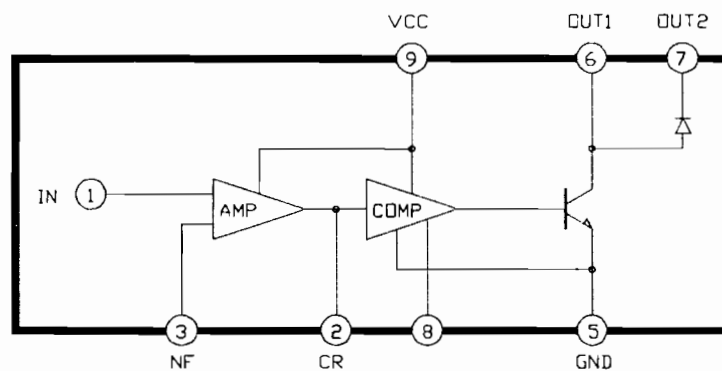
# IC PIN FUNCTION MICRO-PROCESSOR'S (ANAM1223D)

No.	SYMBOL	I/O	DESCRIPTION
3~7	G1~G5	O	FLD GRID SELECTION OUTPUT.
8	VDD	-	+5V
9~12	KEY IN	I	KEY MATRIX INPUT
13~16	KEY OUT	O	KEY Matriix OUTPUT
17	RESET	I	SYSTEM RESET INPUT
18	AV	-	GROUND OF A/D CONVERTER
21	STANDBY	O	POWER STANDBY INDICATOR OUTPUT
23, 24	TIMER	I	TIMER CONTROLLED INPUT
25	B. SKIP	O	BLANK SKIP INDICATOR OUTPUT
26	COUNT. M	O	COUNTER MEMORY INDICATOR OUTPUT
27	METER (R)	I	LEVEL METER R CH, INPUT
28	METER (L)	I	LEVEL METER L CH, INPUT
29	AVDD	-	ANALOG Add OF A/D CONVERTER
30	AVREF	-	REFERENCE VOLTAGE OF A/D CONVERTER
33	VSS	-	GROUND
34	X1	I	CRYSTAL CONNECTION PIN
35	X2	O	CRYSTAL CONNECTION PIN
38	MUTE	O	MUTE CONTROL OUTPUT FOR LINE OUT
39	REC ON	O	OUTPUT FOR RECORDING MODE
40	REC MUTE	O	RECORDING MUTE OUTPUT
41	B	O	DOLBY B NR SELECTION OUTPUT
42	C	O	DOLBY C NR SELECTION OUTPUT
43	POWER	O	POWER OUTPUT
44	IPSS	I	IPSS INPUT
45	COUNT	I	TAPE COUNTER INPUT
46	REMOTE-IN	I	REMOTE CONTROL SENSOR INPUT
47	BUS-IN	I	BUS-LINE DATA INPUT
49	BUS-OUT	O	BUS-LINE DATA OUTPUT
50	TAPE	I	TAPE LOADING DETECTION INPUT
51	PLAY	I	PLAY INPUT
53	REC-F	I	REC. PROTECTION TAP DETECTION (FORWARD) INPUT
54	REC-R	I	REC. PROTECTION TAP DETECTION (REVERSE) INPUT
55	OPEN SW	I	TRAY OPEN SW. INPUT
56	CLOSE SW	I	TRAY CLOSE SW. INPUT
57	SOL	O	SOLENOID CONTROL OUTPUT
58	MOTOR	O	MOTOR DRIVE OUTPUT
59	CLOSE-MOTOR	O	OPEN/CLOSE MOTOR DRIVE OUTPUT (CLOSE)
60	OPEN-MOTOR	O	OPEN/CLOSE MOTOR DRIVE OUTPUT (OPEN)
61~70	P1~P10	O	FLD SEGMENT SELECTION OUTPUT
72~80	P11~P16	O	FLD SEGMENT SELECTION OUTPUT

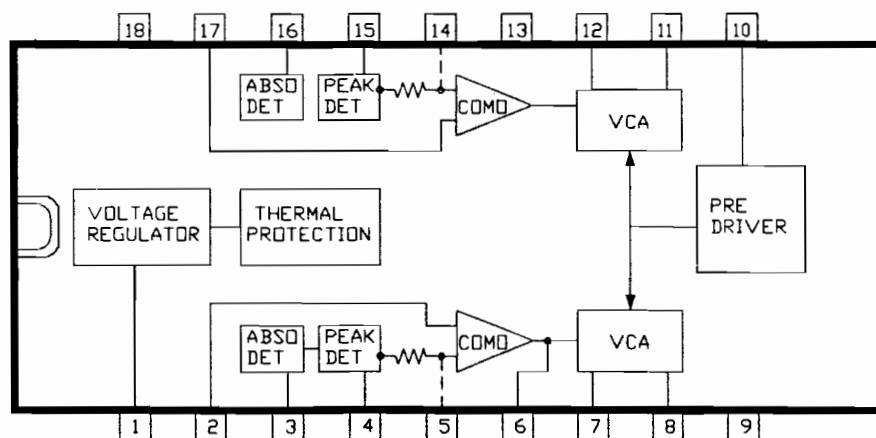
## BA6209(Reversible Motor Driver)



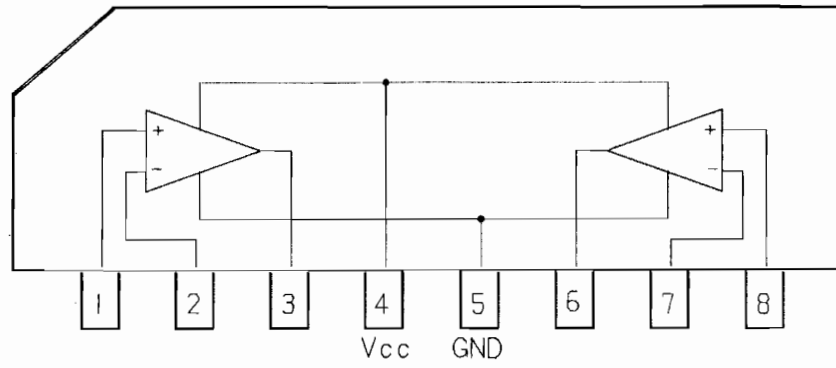
## LA2000(Audio Level Sensor)



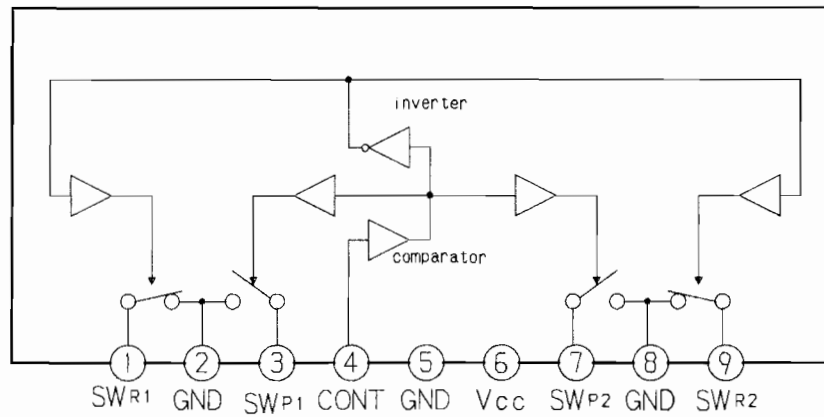
## PC1297(DOLBY HX PRO System)



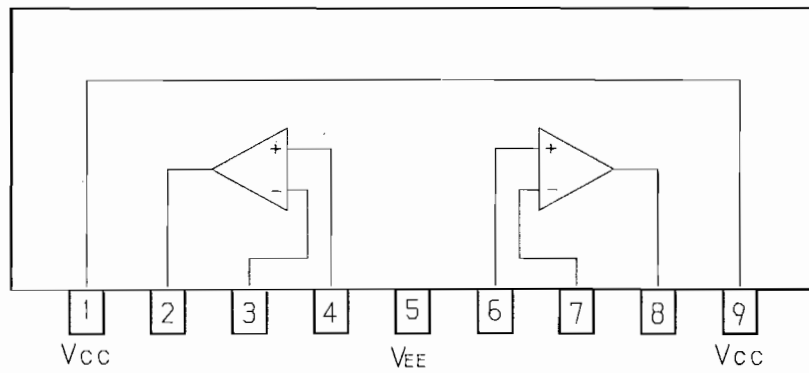
uPC1228HA (low noise pre-amp)



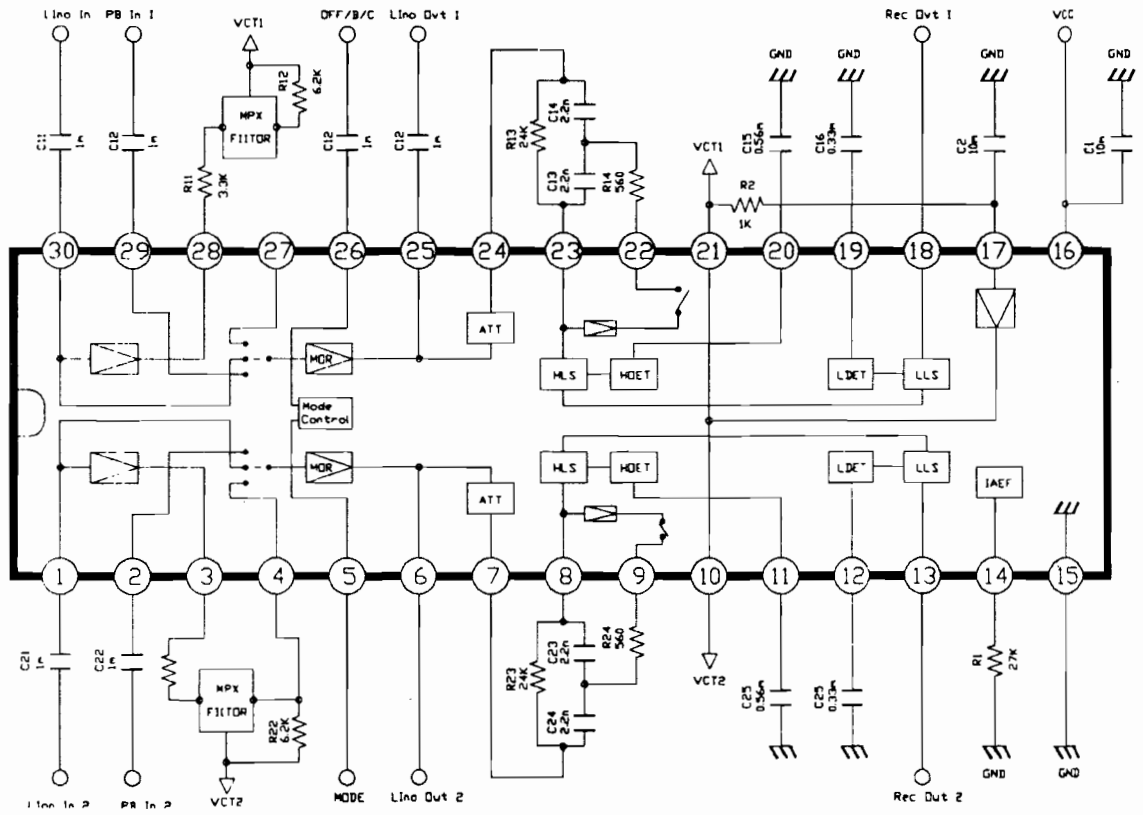
uPC1330HA (REC/PB AUDIO HEAD SWITCH)



MC 4558S (OP AMP)

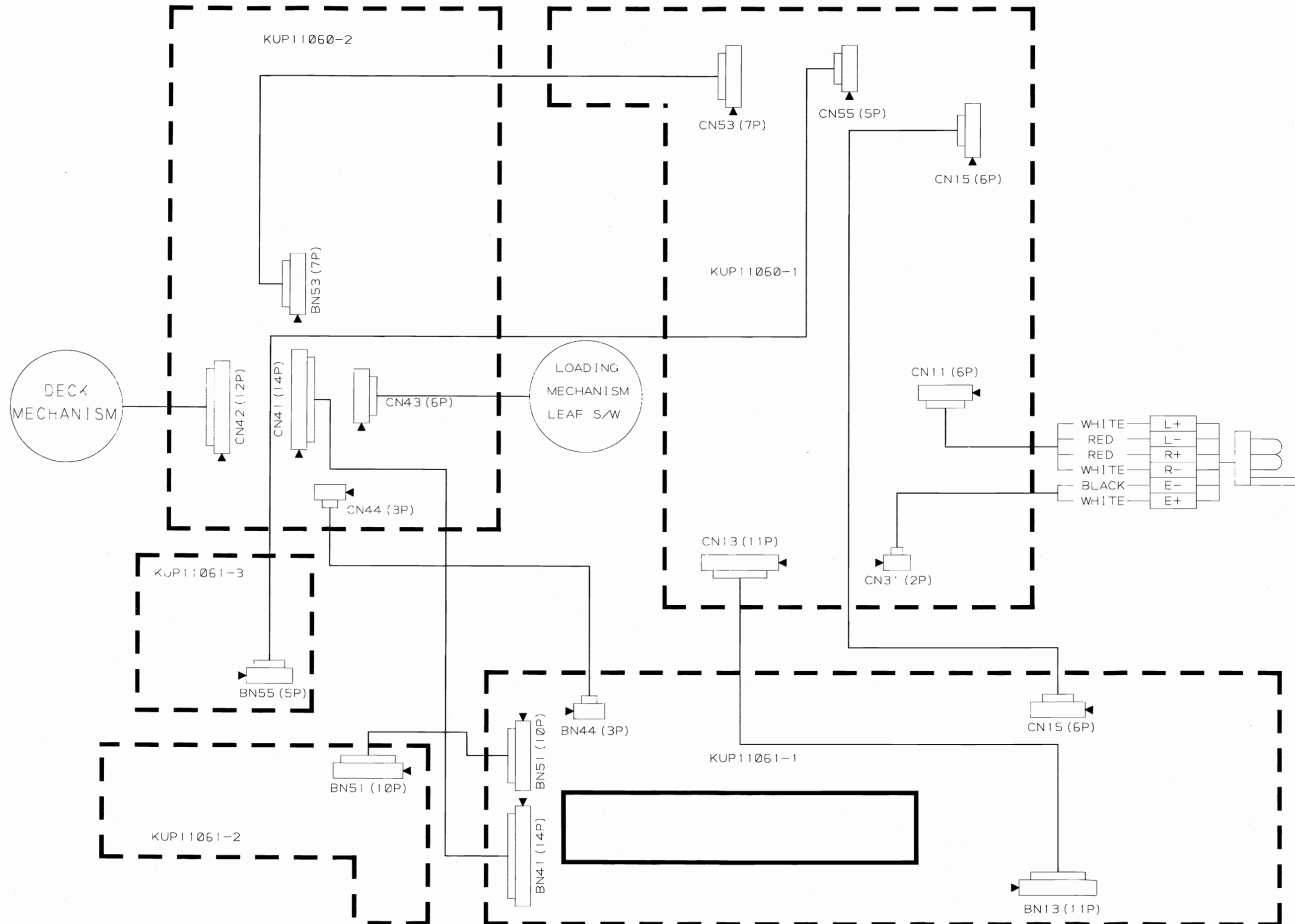


## CXA1331S (DOLBY B. C Noise Reduction System)

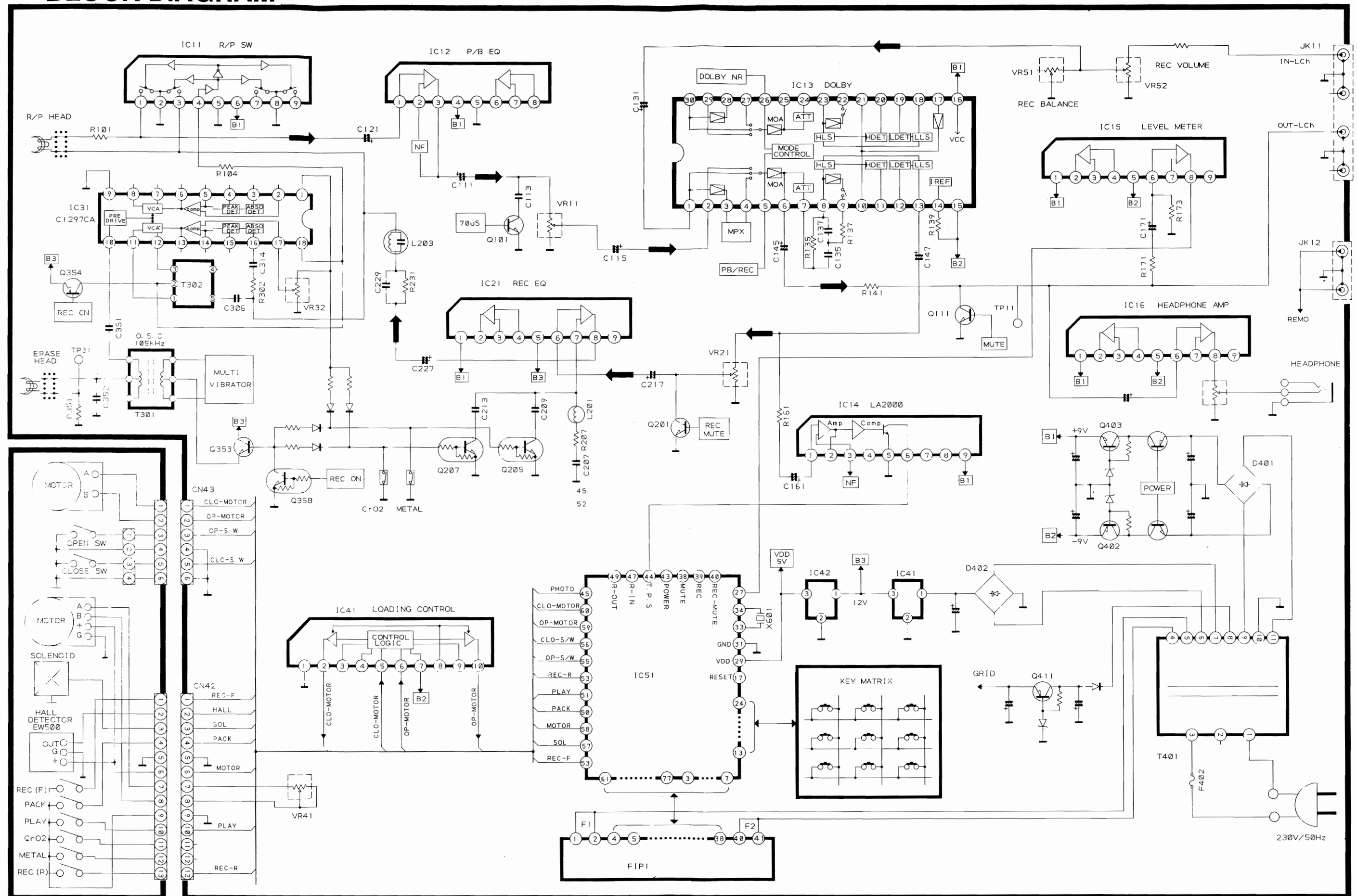




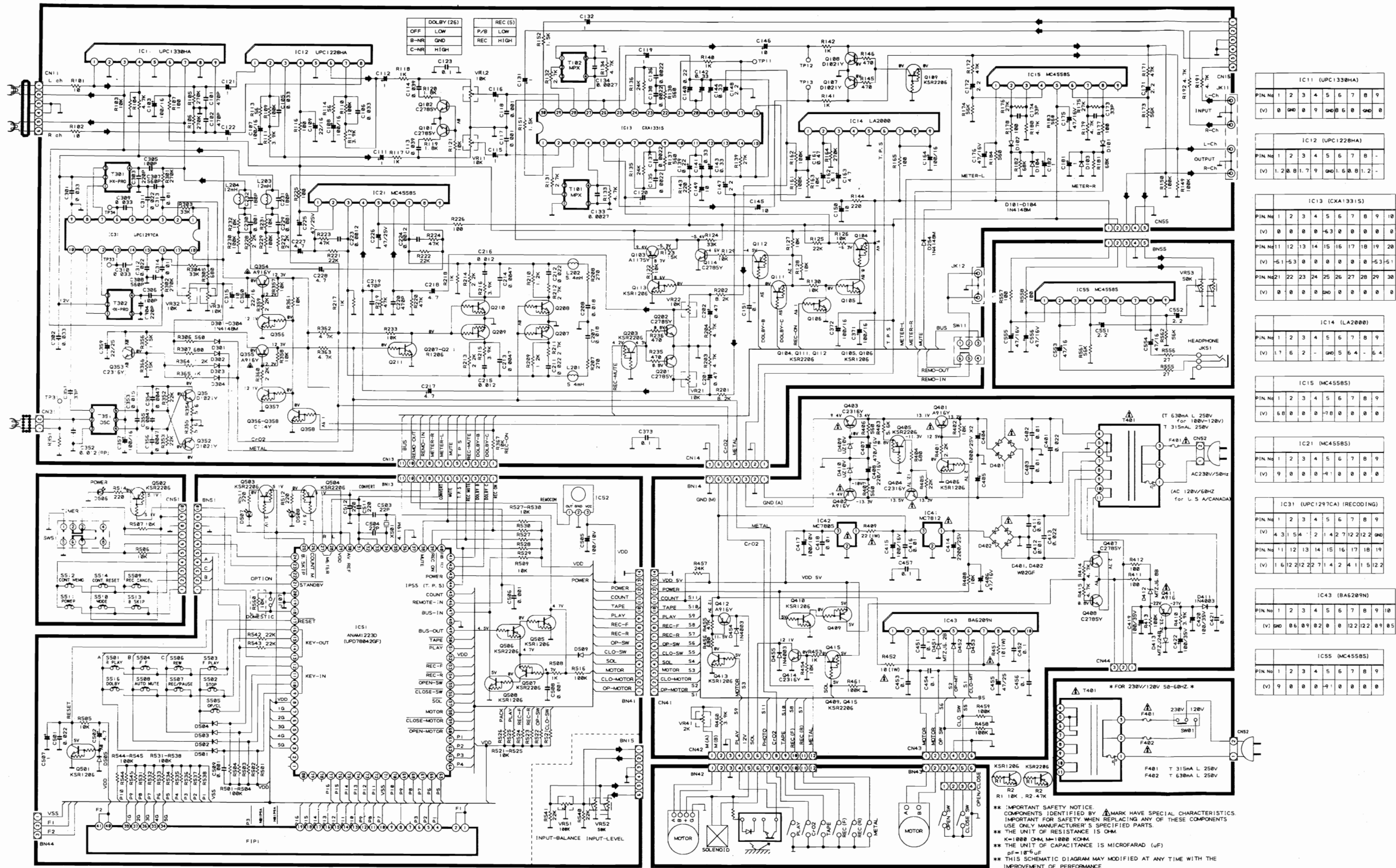
# WIRING DIAGRAM



# BLOCK DIAGRAM



# SCHEMATIC DIAGRAM



IC11 (UPC1338HA)									
PIN No	1	2	3	4	5	6	7	8	9
(V)	0	0	0	0	0	0	0	0	0

IC12 (UPC1228HA)									
PIN No	1	2	3	4	5	6	7	8	9
(V)	1	2	0	0	1	7	9	0	0

IC13 (CX1331S)										
PIN No	1	2	3	4	5	6	7	8	9	10
(V)	0	0	0	0	-6.3	0	0	0	0	0
PIN No	11	12	13	14	15	16	17	18	19	20
(V)	-6.1	-5.3	0	0	0	0	0	0	-5.3	-6.1
PIN No	21	22	23	24	25	26	27	28	29	30
(V)	0	0	0	0	0	0	0	0	0	0

IC14 (LA2000)									
PIN No	1	2	3	4	5	6	7	8	9
(V)	1	7	6	2	-	0	0	5	4

IC15 (MC4558S)									
PIN No	1	2	3	4	5	6	7	8	9
(V)	6	0	0	0	0	-7	0	0	0

IC21 (MC4558S)									
PIN No	1	2	3	4	5	6	7	8	9
(V)	9	0	0	0	-1	0	0	0	0

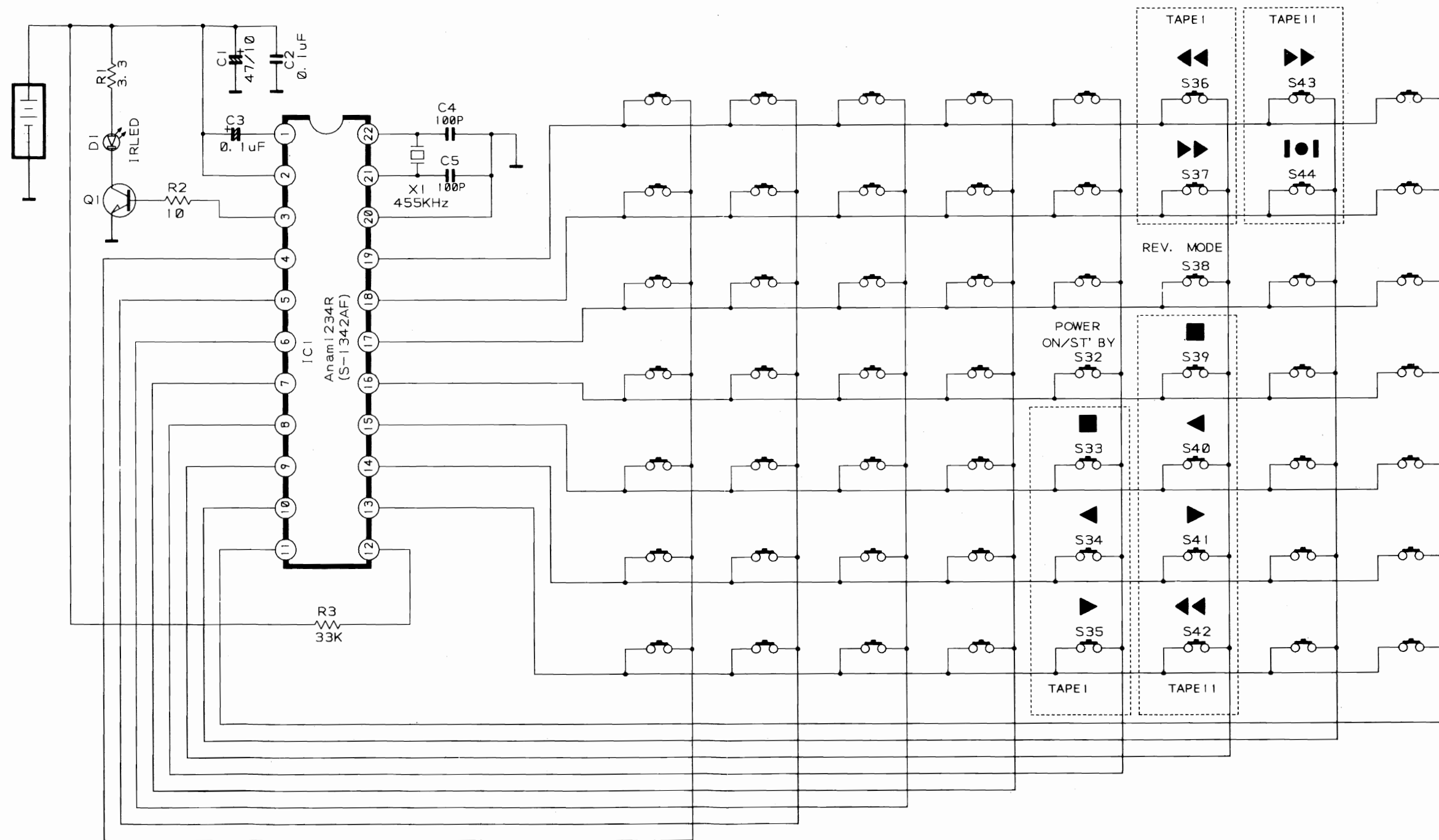
IC31 (UPC1297CA) (RECORDING)									
PIN No	1	2	3	4	5	6	7	8	9
(V)	4	3	1	5	4	-	2	1	4
PIN No	10	11	12	13	14	15	16	17	18
(V)	1	6	1	2	2	2	2	1	5

IC43 (BA6209N)									
PIN No	1	2	3	4	5	6	7	8	9
(V)	0	0	0	0	0	0	0	0	0

IC55 (MC4558S)									
PIN No	1	2	3	4	5	6	7	8	9
(V)	9	0	0	0	-1	0	0	0	0

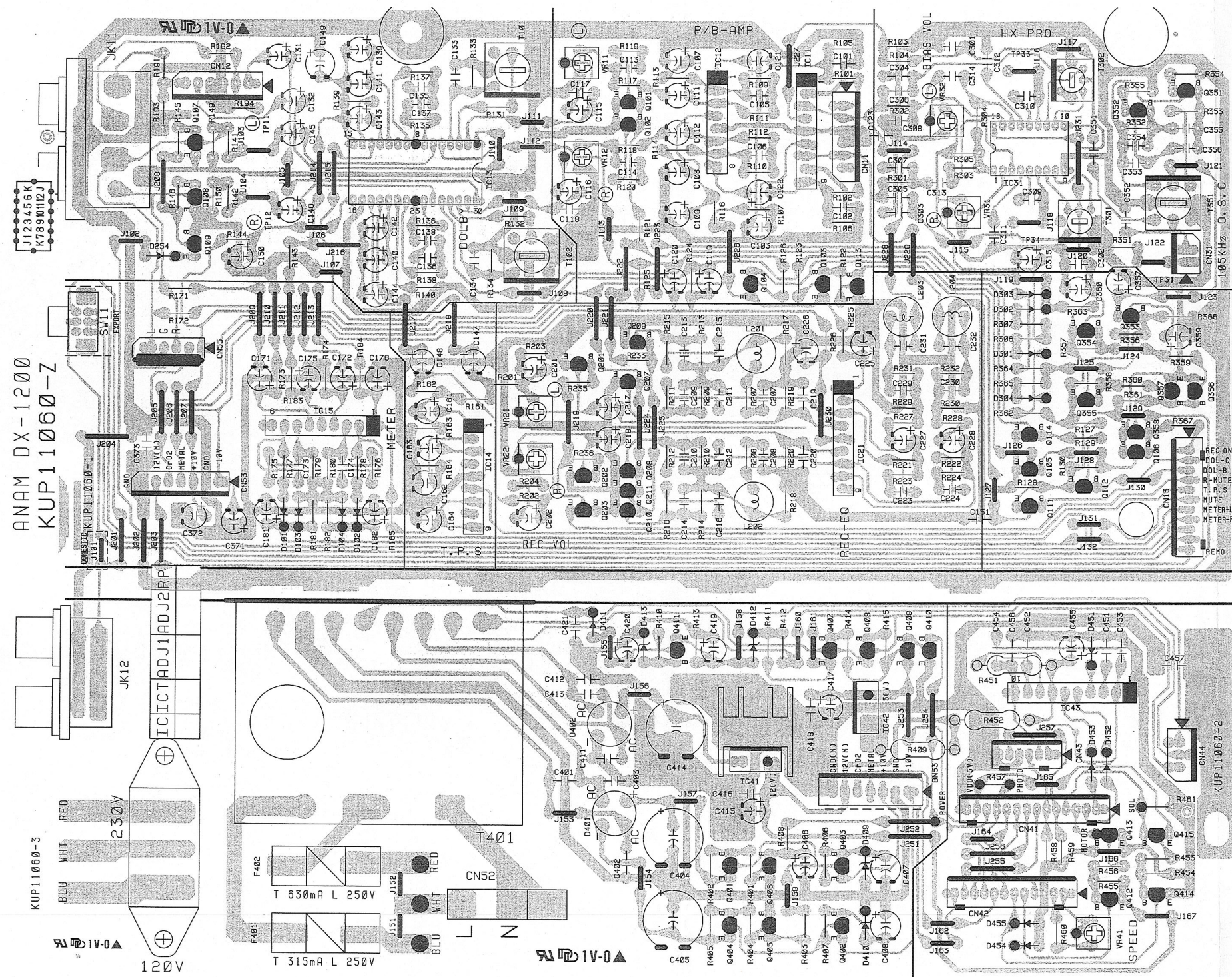
# REMOTE CONTROL SCHEMATIC DIAGRAM

MODEL NO: RC-G1200 (DECK)

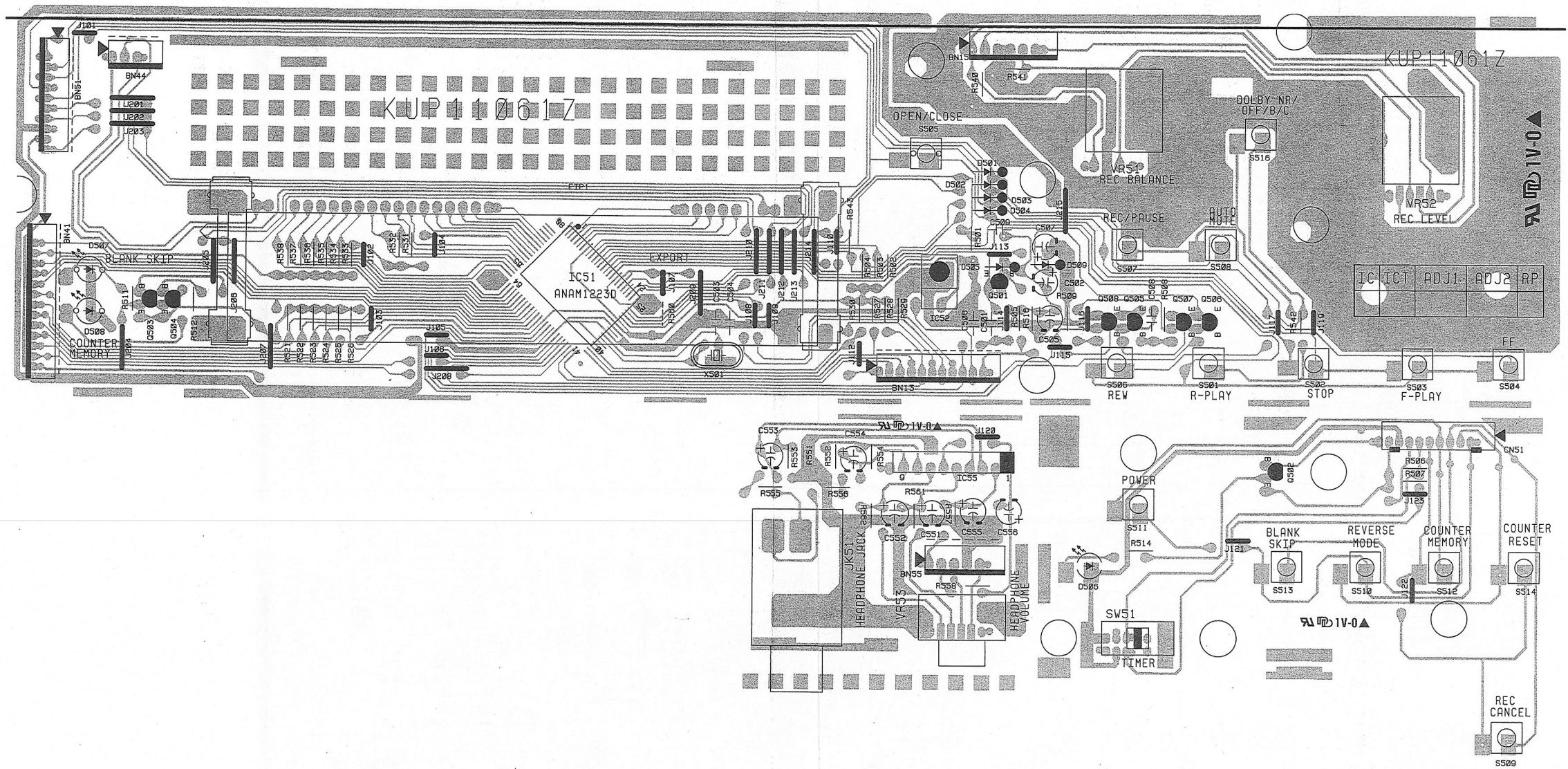




# PRINTED CIRCUIT BOARDS

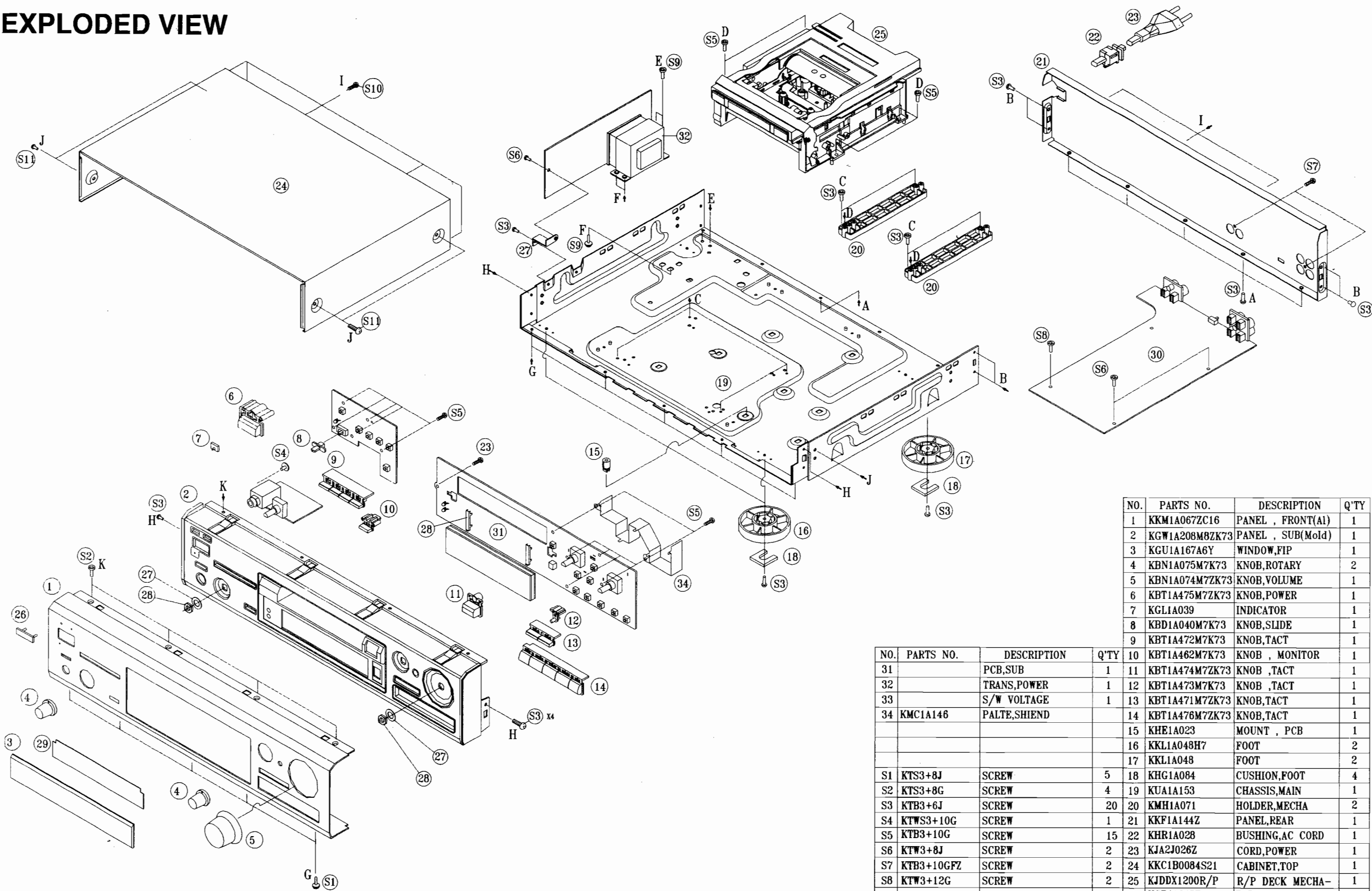








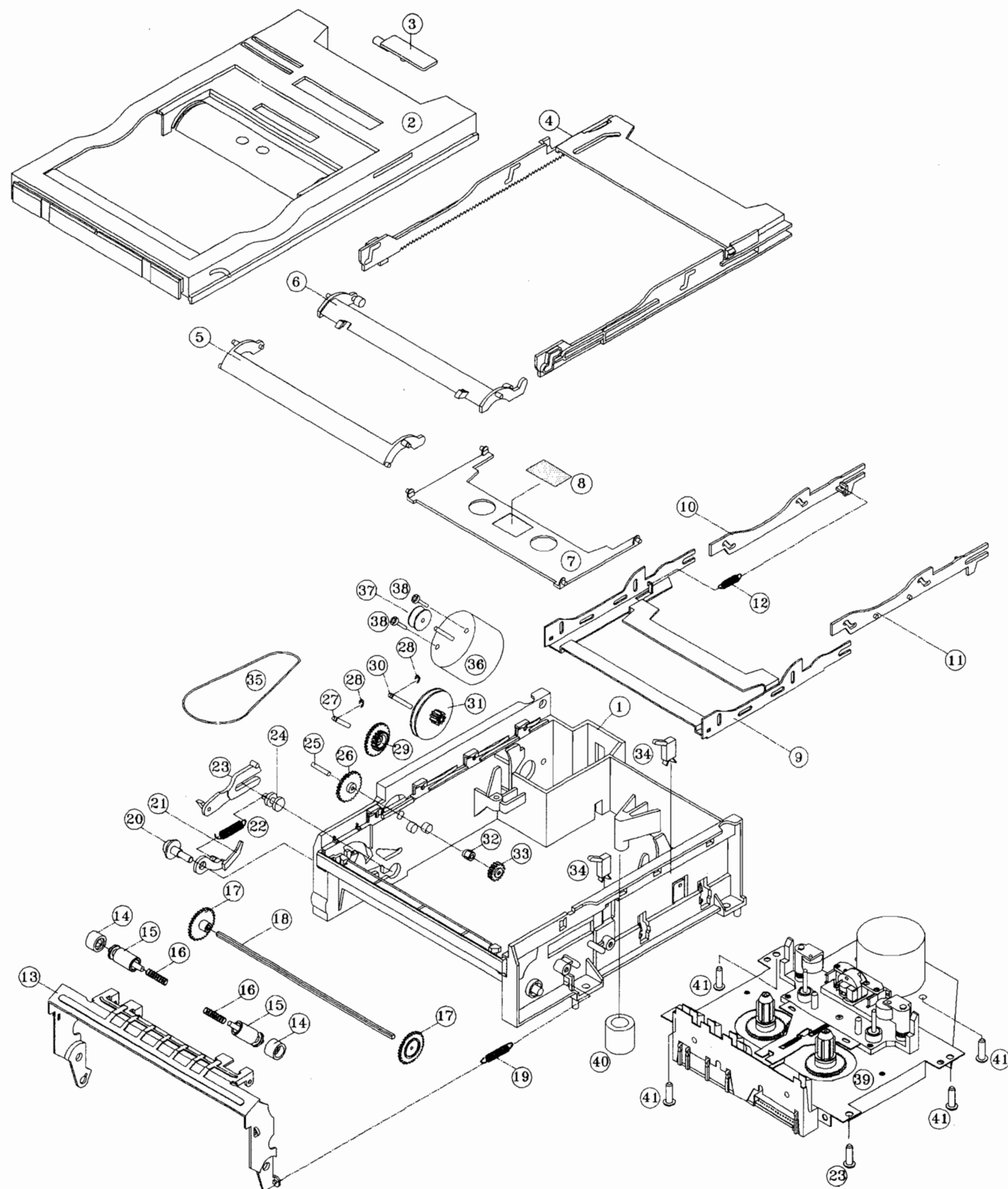
EXPLODED VIEW



NO.	PARTS NO.	DESCRIPTION	Q'TY
1	KKM1A067ZC16	PANEL , FRONT(AI)	1
2	KGW1A208M8ZK73	PANEL , SUB(Mold)	1
3	KGU1A167A6Y	WINDOW,FIP	1
4	KBN1A075M7K73	KNOB,ROTARY	2
5	KBN1A074M7ZK73	KNOB,VOLUME	1
6	KBT1A475M7ZK73	KNOB,POWER	1
7	KGL1A039	INDICATOR	1
8	KBD1A040M7K73	KNOB,SLIDE	1
9	KBT1A472M7K73	KNOB,TACT	1
10	KBT1A462M7K73	KNOB , MONITOR	1
11	KBT1A474M7ZK73	KNOB ,TACT	1
12	KBT1A473M7K73	KNOB ,TACT	1
13	KBT1A471M7ZK73	KNOB,TACT	1
14	KBT1A476M7ZK73	KNOB,TACT	1
15	KHE1A023	MOUNT , PCB	1
16	KKL1A048H7	FOOT	2
17	KKL1A048	FOOT	2
18	KHG1A084	CUSHION,FOOT	4
19	KUA1A153	CHASSIS,MAIN	1
20	KMH1A071	HOLDER,MECHA	2
21	KKF1A144Z	PANEL,REAR	1
22	KHR1A028	BUSHING,AC CORD	1
23	KJA2J026Z	CORD,POWER	1
24	KKC1B0084S21	CABINET,TOP	1
25	KJDDX1200R/P	R/P DECK MECHA-	1
26	KGB1A045Z	BADGE	1
27	KMD1A346	BRACKET,PCB	1
28	KMD1A209	BRACKET,FLT	2
29	KMZ1A066	FILTER,FIP	1
30		PCB,MAIN	1

NO.	PARTS NO.	DESCRIPTION	Q'TY
31		PCB,SUB	1
32		TRANS,POWER	1
33		S/W VOLTAGE	1
34	KMC1A146	PALTE,SHIEND	
S1	KTS3+8J	SCREW	5
S2	KTS3+8G	SCREW	4
S3	KTB3+6J	SCREW	20
S4	KTWS3+10G	SCREW	1
S5	KTB3+10G	SCREW	15
S6	KTW3+8J	SCREW	2
S7	KTB3+10GFZ	SCREW	2
S8	KTW3+12G	SCREW	2
S9	KTB4+8F	SCREW	4
S10	KTB3+8JFC	SCREW	5
S11	KTB4+6FFC	SCREW	4

MECHANISM ASS'Y



NO.	PARTS NO.	DESCRIPTION	Q'TY	REMARKS
1	KDI4A005	BASE	1	
2	KDD4A005	TRAY	1	
3	KKR2A019	STOPPER	1	
4	KKR1A017	TRNASFER	1	
5	KKR1A016	LINKER , FRONT	1	
6	KKR1A015	LINKER , REAR	1	
7	KKR2A014	PLATTER , TAPE	1	
8	KKR1104B	REFLETOR	1	
9	KKR1A013	PLATTER , LOADING	1	
10	KDD2A009	TRAY , SUB(L)	1	
11	KDD2A006	TRAY , SUB(R)	1	
12	KUS1A063	SPRING , TRAY	1	
13	KUC1A023	ARM , PUSH	1	
14	KHR1A026	ROLL , SILICONE	2	
15	KKG1A026	HOLDER , BAR	2	
16	KUS1A067	SPRING ,COIL	2	
17	KDG1A010	GEAR , TRAY	2	
18	KDF1A009	SHAFT , BAR	1	
19	KUS1A065	SPRING , PUSH ARM	1	
20	KHD2A010	SCREW , SPECIAL	1	
21	KDD2A007	LATCH	1	
22	KUS1A064	SPRING , LINKER	2	
23	KKR1A018	LINKER	1	
24	KDR1A013	ROLLER	1	
25	KDF3A012	SHAFT , PIN	1	
26	KDG3A012	GEAR(A) , IDLE	1	
27	KDF1A010	SHAFT , GEAR	1	
28	KNW1A010	E-RING	2	
29	KDG2A013	GEAR(B) , IDLE	1	
30	KDF2A011	SHAFT , PIN	1	
31	KDR2A014	GEAR , PULLEY	1	
32	KDD2A008	BUSHING , SERRATION	1	
33	KDG3A011	GEAR , PINION	1	
34	BSH1A005Z	SWITCH , LEAF(MLS-1)	2	
35	KDV1A003	BELT	1	
36	KDM3220B1	MOTOR	1	
37	KDR1A010	PULLEY , MOTOR	1	
38	KSB26+4	SCREW	2	
39	BJD1G2S21Z	DECK MECHANISM	1	
40	KNW1A023	RING-W	1	
40	KTB3+8G	SCREW	5	



# PARTS LIST

## ATTENTION

1. When placing an order for parts, be sure to list the Part No., Model No. and the description of each part. Otherwise, the non-delivery of the part or the delivery of a wrong part may result.
2. Please make sure that Part No. is correct when ordering.  
If not, a part different from the one you ordered may be delivered.
3. Since the parts shown in Parts List of Preliminary Service Manual may have been the subject of changes, please use this Parts List for all future reference.

## HOW TO USE THIS PARTS LIST

1. This Parts List lists those parts which are considered necessary for repairs. Other common parts, such as resistors and capacitors, are listed in the "Common List for Service Parts" from which these parts should be selected and stocked.
2. Parts not shown in the Parts List and "Common List for Service Parts" will not in principle be supplied.
3. How to read the Parts List.

### ■ Resistor and Capacitor

- Notes :
- Part numbers are indicated for most mechanical parts.  
Please use this part number for parts order.
  - IMPORTANT SAFETY NOTICE.  
Components identified by  $\triangle$  mark have special characteristics important for safety.  
When replacing any of these components, use only manufacture's specified parts.
  - The unit of resistance is OHM ( $\Omega$ )  
K=1000( $\Omega$ ), M=1000(K  $\Omega$ )
  - The unit of capacitance is MICROFARAD( $\mu$ F).
  - P= $10^{-6}\mu$ F

### ■ Numbering System of Resistor

#### Example

KRD	25	F	J	101
Type	Wattage	Shape	Tolerance	Value

Resistor Type	Wattage	Tolerance
KRD:Carbon	20:1/5W	F: $\pm 1\%$
KRG:Metal Oxide	25:1/4W	J: $\pm 5\%$
	50:1/2W	K: $\pm 10\%$
	1:1W	
KRF:Metal Cement	2:2W	
	3:3W	

### ■ Numbering System of Capacitor

#### Example

KCKT	1H	101	K	B
Type	Voltage	Value	Tolerance	Peculiarity

Capacitor Type	Voltage		Tolerance
	ECEA Type	Other	
KCB:Ceramic	OJ:6.3V	1H:50V DC	C: $\pm 0.25\mu$ F
KCC:Ceramic	1A:10V	1:125V DC	G: $\pm 2\%$
KCK:Ceramic	1C:16V	KC:400V AC	J: $\pm 5\%$
KCFR:Semiconductor	1E:25V		K: $\pm 10\%$
KCQI:Polyester	1H:50V		Z: +80%, -20%
KCQP:Polypropylene	1V:35V		
KCQS:Polystyrol			

## WARNING

$\triangle$  (\*) INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURE'S RECOMMENDED PARTS.

## AVERTISSEMENT

$\triangle$  (\*) IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT.

## ■ ELECTRICAL PARTS LIST

[illegible]

**AKAI**